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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,579	03/12/2004	Hirohito Kimoto	22040-00031-US	2578
30678 7590 07/18/2007 CONNOLLY BOVE LODGE & HUTZ LLP 1875 EYE STREET, N.W.			EXAMINER	
			SAUNDERS JR, JOSEPH	
SUITE 1100 WASHINGTO	N. DC 20036		ART UNIT	PAPER NUMBER
			2615	
			MAIL DATE	DELIVERY MODE
			07/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/708,579	KIMOTO, HIROHITO			
Office Action Summary	Examiner	Art Unit			
	Joseph Saunders	2615			
The MAILING DATE of this communicate Period for Reply	ion appears on the cover sheet with	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR	DEDIVIS SET TO EVDIDE 2 MC	ONTH(S) OR THIRTY (30) DAVS			
WHICHEVER IS LONGER, FROM THE MAIL - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communic: - If NO period for reply is specified above, the maximum statutor - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMMUNIC CFR 1.136(a). In no event, however, may a relation. The period will apply and will expire SIX (6) MONT by statute, cause the application to become ABA	ATION. ply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed o	n <u>12 March 2004</u> .				
2a) This action is FINAL. 2b)	This action is FINAL. 2b)⊠ This action is non-final.				
, ==	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice to	ınder <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims	•				
4) Claim(s) 1-13 is/are pending in the appl	ication.				
4a) Of the above claim(s) is/are w	vithdrawn from consideration.				
5) Claim(s) is/are allowed.		•			
6) Claim(s) <u>1-13</u> is/are rejected.					
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction	and/or election requirement	·			
of Claim(s) are subject to restriction	rand/or election requirement.				
Application Papers					
9) The specification is objected to by the Ex	xaminer.				
10)⊠ The drawing(s) filed on <u>12 March 2004</u> is	s/are: a)⊠ accepted or b)⊡ obje	ected to by the Examiner.			
Applicant may not request that any objection	***				
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by		•			
	the Examiner. Note the attached	Office Action of form 1 10-132.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for a)⊠ All b) Some * c) None of:	foreign priority under 35 U.S.C. §	119(a)-(d) or (f).			
 1. ☐ Certified copies of the priority doc 	cuments have been received.				
2. Certified copies of the priority doc	·				
3. Copies of the certified copies of the		received in this National Stage			
application from the International * See the attached detailed Office action for		raceived			
See the attached detailed Office action to	in a list of the certified copies flot i	eceived.			
	·	·			
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO- 		ummary (PTO-413) //Mail Date			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6-14-04.		formal Patent Application			

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DETAILED ACTION

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This is the initial office action based on the application filed March 12, 2004.
 Claims 1 – 13 are currently pending and considered below.

Specification

2. The disclosure is objected to because of the following informalities: In the last sentence of paragraph 20 "MP" should be "MP3". In the last sentence of paragraph 73 "commutation" should be "communication".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1 13 are rejected under 35 U.S.C. 102(e) as being anticipated by Yano (US 6,815,601 B2), hereinafter Yano.

Claim 1: Yano discloses a music file generating apparatus (system for delivering music), comprising: a singing voice extraction means that extracts singing voices from

digital voice data in which said singing voices and voices other than such said singing voices are mixed (voice data separator 12, Column 6 Lines 46 – 52), and obtains the singing voice data in the PCM format (Pulse Code Modulation or Adaptive Differential Pulse Code Modulation, Column 6 Lines 53 – 63); a MIDI generating means that generates the BGM data in the MIDI format, generates simulated singing voice data in the MIDI format corresponding to the singing voices extracted by said singing voice extraction means, adds said simulated singing voice data to said BGM data, and adjusts the MIDI data (synthesized voice and performance data, Column 7 Lines 15 -16 and 35 – 47); and a file generating means that processes the singing voice data in the PCM format generated by said singing voice extraction means and the BGM and simulated singing voice data in the MIDI format generated by said MIDI generating means as a single music file (multiplexer 11).

Claim 2: Yano discloses the music file generating apparatus according to claim 1, wherein said voices other than singing voices are BGM (Column 1 Lines 15 – 22).

Claim 3: Yano discloses the music file generating apparatus according to claim 1, wherein said voices other than singing voices are noises (Column 1 Lines 15 – 22).

Claim 4: Yano discloses the music file generating apparatus according to claim 1, wherein said singing voice extraction means performs a procedure of bandwidth limiting of the digital voice data composed of a mixture of said singing voices and said voices

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other than singing voices up to a predominated frequency band corresponding to said singing voices (Column 6 Line 64 – Column 7 Line 3).

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Claim 5: Yano discloses the music file generating apparatus according to claim 1, wherein the music file generated by said file generating means is structured to include the MIDI reproduction control information so as to reproduce said BGM and simulated singing voice data in the MIDI format generated by said MIDI generating means (Column 7 Lines 35 – 47 and Column 8 Lines 16 – 20) and the PCM reproduction control information so as to synthesize said singing voice data in the PCM format generated by said singing voice extraction means for said simulated singing voice data and to reproduce such singing voice data (Column 6 Lines 53 – 63 and Column 8 Lines 21 – 33).

Claim 6: Yano discloses a music file generating method (method for delivering music), comprising: a first step that extracts singing voices from the digital voice data composed of a mixture of said singing voices and voices other than said singing voices (voice data separator 12, Column 6 Lines 46 – 52), and obtains the singing voice data in the PCM format (Pulse Code Modulation or Adaptive Differential Pulse Code Modulation, Column 6 Lines 53 – 63); a second step that generates BGM data in the MIDI format; a third step that generates simulated singing voice data in the MIDI format corresponding to the singing voices extracted in said first step, adds said simulated singing voice data to the BGM data generated in said second step, and adjusts the MIDI data (synthesized

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voice and performance data, Column 7 Lines 15 -16 and 35 – 47); and a fourth step that processes the singing voice data in the PCM format generated in said first step and the BGM and simulated singing voice data in the MIDI format adjusted in said third step into a single music file (multiplexer 11).

Claim 7: Yano discloses the music file generating method according to claim 6, wherein said voices other than singing voices are BGM (Column 1 Lines 15 – 22).

Claim 8: Yano discloses the music file generating method according to claim 6, wherein said voices other than singing voices are noises (Column 1 Lines 15 – 22).

Claim 9: Yano discloses the music file generating method according to claim 6, wherein in said first step, a procedure of bandwidth limiting of the digital voice data composed of a mixture of said singing voices and said voices other than singing voices up to a predominated frequency band corresponding to said singing voices is performed (Column 6 Line 64 – Column 7 Line 3).

Claim 10: Yano discloses the music file generating method according to claim 6, wherein in said fourth step, a procedure of adjustment is performed to synthesize the reproduction timing of said singing voice data in the PCM format that has been generated in said second step, and said BGM and simulated singing voice data in the MIDI format generated in said third step (Column 7 Lines 30 – 34).

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Claim 11: Yano discloses the music file generating method according to claim 6, wherein the music file generated in said fourth step is structured to include the MIDI reproduction control information so as to reproduce said BGM and simulated singing voice data in the MIDI format generated in said third step (Column 7 Lines 35 – 47 and Column 8 Lines 16 – 20), and the PCM reproduction control information so as to synthesize said singing voice data in the PCM format generated in said second step for said simulated singing voice data and to reproduce such singing voice data (Column 6 Lines 53 – 63 and Column 8 Lines 21 – 33).

Claim 12: Yano discloses a recorded medium ("delivering data") readable by computer (CPU 20), comprising: PCM data composed of singing voices in the PCM format (voice data as Pulse Code Modulation or Adaptive Differential Pulse Code Modulation, Column 6 Lines 53 – 63); and MIDI data where simulated singing voice data in the MIDI format that is generated corresponding to the singing voices of said PCM data is added to BGM data in the MIDI format (synthesized voice and performance data, Column 7 Lines 15 -16 and 35 – 47); wherein a music file with a data structure where said PCM data and said MIDI data are integrated into a single file is recorded ("delivering data").

Claim 13: Yano discloses a recorded medium readable by computer according to claim 12, wherein said music file includes the MIDI reproduction control information so as to reproduce said MIDI data (Column 7 Lines 35 – 47 and Column 8 Lines 16 – 20), and

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the PCM reproduction control information so as to synthesize said PCM data to said MIDI data and to reproduce such PCM data (Column 6 Lines 53 – 63 and Column 8 Lines 21 – 33).

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Saunders whose telephone number is (571) 270-1063. The examiner can normally be reached on Monday - Thursday, 9:00 a.m. - 4:00 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on (571) 272-7564. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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July 7, 2007

SINH TRAN SUPERVISORY PATENT EXAMINER